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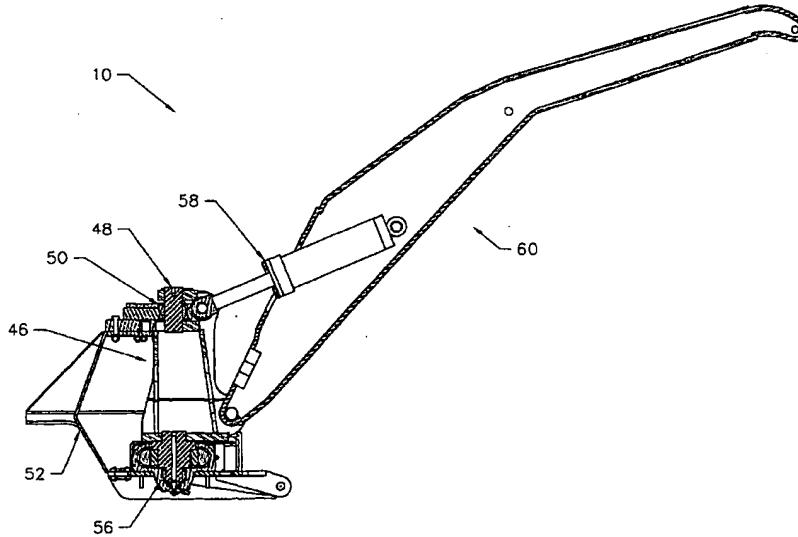
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(54) Title: SWING BOOM PIVOT MECHANISM



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(57) Abstract: The present invention relates to a swing boom assembly (10), which has a fixed base (52), a pivot base (40) rotatably mounted on the fixed base, and a boom (60) pivotally coupled to the pivot base. The boom is coupled proximate a lower end of the pivot base and has a hydraulic piston cylinder (59) coupled between the boom and an upper end of the pivot base. The hydraulic piston cylinder is operative to raise and lower the boom. The pivot base has an upper shaft (48), a main body (54) having a pair of spaced apart clevis plates affixed to each end of the upper shaft, and a spherical bearing (50) rigidly mounted around the upper shaft between the clevis plates and said bearing having an outer race rigidly mounted to the fixed base. The hydraulic piston cylinder is coupled to the main body of the pivot base rather than directly to an upper shaft.



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